

K.C. Wilson, G. R. Addie,
A. Sellgren and R. Clift

SLURRY TRANSPORT USING CENTRIFUGAL PUMPS

Third Edition



Slurry Transport Using Centrifugal Pumps

Baha Abulnaga



Slurry Transport Using Centrifugal Pumps:

Slurry Transport Using Centrifugal Pumps K. C. Wilson, G. R. Addie, A. Sellgren, R. Clift, 2008-03-28 1 1 Applications of Slurry Transport Vast tonnages are pumped every year in the form of solid liquid mixtures known as slurries The application which involves the largest quantities is the dredging industry continually maintaining navigation in harbours and rivers altering coastlines and winning material for landfill and construction purposes As a single dredge may be required to maintain a throughput of 7000 tonnes of slurry per hour or more very large centrifugal pumps are used Figures 1 1 and 1 2 show respectively an exterior view of this type of pump and a view of a large dredge pump impeller Addie Helmley 1989 The manufacture of fertiliser is another process involving massive slur transport operations Li Florida phosphate matrix is recovered by huge draglines in open pit mining operations It is then slurried and pumped to the wash plants through pipelines with a typical length of about 10 kilometres Each year some 34 million tonnes of matrix are transported in this manner This industry employs centrifugal pumps that are generally smaller than those used in large dredges but impeller diameters up to 1 4 m are common and drive capacity is often in excess of 1000 kW The transport distance is typically longer than for dredging applications and Chapter 1 Figure LI Testing a dredge pump at the GIW Hydraulic Laboratory Figure 1 2 Impeller for large dredge pump 1 Introduction 3 hence a series of pumping stations is often used Figure 1 3 shows a boost pump installation in a phosphate pipeline Slurry Transport Using Centrifugal Pumps Robert Visintainer, Václav Matoušek, Lionel Pullum, Anders Sellgren, 2023-04-03 This book is based on the industry leading short course of the same name hosted by the GIW Industries Hydraulic Laboratory and founded by Dr Roland Clift and Graeme Addie who together with Dr Ken Wilson continued its development and authored the first edition of this textbook This fourth edition has been extensively updated by the international team of engineers and authors who inherited this legacy and continue its development to the present day Focusing on the hydraulic design of slurry pipelines the pumps that power them and the interactions between pumps and systems it retains the classroom tested balance of theoretical development and practical engineering which have made it a slurry transport classic The topics covered are important to slurry system engineers for the optimization of new designs as well as the operators of existing systems who may need to calculate and plan for changing conditions from day to day Updates to the fourth edition include Careful formulation of the theoretical concepts providing greater clarity of slurry flow dynamics including a new chapter on the principles and characterization of slurry flows Expansion of the 4 Component Models for settling slurry pipeline flow and pump solids effect based on an extensive series of full sized tests An expanded treatment of complex slurries including a broader discussion of non Newtonian fluids and their interaction with coarse particles A new chapter on test methods presenting an overview of slurry system instrumentation modern techniques for characterizing slurry rheology and practical advice for planning and executing a slurry test An overview of advances in the computational modeling of slurries including an in depth parametric study of slurry pump wear

and operating cost The authors highlight methods for achieving energy efficiency which are crucial to the effective use of scarce resources given the foundational role of slurry transport systems in the energy intensive industries of mining and dredging Key concepts are supported with case studies and worked examples *Slurry Transport Using Centrifugal Pumps* fourth edition is both methodical and in depth It is ideal as a teaching tool for classroom or self directed learning domains and valuable as a design guide for engineer practitioners at all experience levels *Slurry Transport Using Centrifugal Pumps* K. C. Wilson, G. R. Addie, A. Sellgren, R. Clift, 2008-11-01

1 Applications of Slurry Transport Vast tonnages are pumped every year in the form of solid liquid mixtures known as slurries The application which involves the largest quantities is the dredging industry continually maintaining navigation in harbours and rivers altering coastlines and winning material for landfill and construction purposes As a single dredge may be required to maintain a throughput of 7000 tonnes of slurry per hour or more very large centrifugal pumps are used Figures 1 1 and 1 2 show respectively an exterior view of this type of pump and a view of a large dredge pump impeller Addie Helmley 1989 The manufacture of fertiliser is another process involving massive slur transport operations Li Florida phosphate matrix is recovered by huge draglines in open pit mining operations It is then slurried and pumped to the wash plants through pipelines with a typical length of about 10 kilometres Each year some 34 million tonnes of matrix are transported in this manner This industry employs centrifugal pumps that are generally smaller than those used in large dredges but impeller diameters up to 1 4 m are common and drive capacity is often in excess of 1000 kW The transport distance is typically longer than for dredging applications and Chapter 1 Figure LI Testing a dredge pump at the GIW Hydraulic Laboratory Figure 1 2 Impeller for large dredge pump 1 Introduction 3 hence a series of pumping stations is often used Figure 1 3 shows a boost pump installation in a phosphate pipeline

Centrifugal Pumps Johann Friedrich Gülich, 2007-10-25 An up to date and unparalleled in depth treatment of all kinds of flow phenomena encountered in centrifugal pumps is given including the complex interactions of fluid flow with vibrations and wear of materials The scope includes all aspects of hydraulic design 3D flow phenomena and partload operation cavitation numerical flow calculations hydraulic forces pressure pulsations noise pump vibrations notably bearing housing vibrations diagnostics and remedies pipe vibrations pump characteristics and pump operation the effects of highly viscous flows pumping of gas liquid mixtures hydraulic transport of solids fatigue damage to impellers or diffusers material selection under the aspects of fatigue corrosion erosion corrosion or hydro abrasive wear pump selection and hydraulic quality criteria Information on the methods and procedures for the various calculations and failure diagnostics discussed in the text are presented in tables which may be considered almost unique in the open literature This comprehensive handbook focuses on practical application in the industry and is free of mathematical or theoretical ballast In order to find viable solutions in practice the physical mechanisms involved must be thoroughly understood The book is focused on fostering this understanding which will benefit the pump engineer in industry as well as academia and students Multiphase Flow S.

Hernández,P. Vorobieff,2020-06-03 The research included in this volume focuses on using synergies between experimental and computational techniques to gain a better understanding of all classes of multiphase and complex flow The included papers illustrate the close interaction between numerical modellers and researchers working to gradually resolve the many outstanding issues in our understanding of multiphase flow Recently multiphase fluid dynamics have generated a great deal of attention leading to many notable advances in experimental analytical and numerical studies Progress in numerical methods has permitted the solution of many practical problems helping to improve our understanding of the physics involved Multiphase flows are found in all areas of technology and the range of related problems of interest is vast including astrophysics biology geophysics atmospheric process and many areas of engineering **FEDSM2007** American Society of Mechanical Engineers. Fluids Engineering Division,2007 A printed collection of 234 full length peer reviewed technical papers It includes topics such as 10th International Symposium on Gas Liquid Two Phase Flows 10th International Symposium on Liquid Solid Flows 11th International Symposium on Gas Particle Flows and 12th Symposium on Algorithmic Developments in CFD **Proceedings of the ASME Fluids Engineering Division Summer Meeting** American Society of Mechanical Engineers. Fluids Engineering Division. Summer Meeting,1996 *Chemical Engineering Progress* ,1999

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mineral processing nuclear waste processing extra heavy oil upgrade mineral concentrate transport tailings systems and metal melting You will get real world examples solved problems and current codes as well as guidelines for conducting feasibility studies and hands on operating procedures Coverage includes General concepts of slurry flows Multi species and stratified heterogeneous flows Non Newtonian slurry flows Open channel and cascade slurry flows Slurry Hammer and Transients in closed and open channels Centrifugal and positive displacement slurry pumps Long distance slurry pipelines by commodity such as coal copper phosphate or gold Oil sand extraction Slurry reactors hydrocracking and heat transfer Hydrocarbon and hydrate based slurry pipelines Semi solid metals casting Tailings systems paste backfilling Slurry flows for nuclear waste processing De silting hydroelectric reservoirs

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